Vidyarthiplus Important Question

Anna University, Chennai

B.E/B.Tech Degree Examination May/June 2016

Department of Automobile Engineering

AT6603 - Two and Three Wheelers

Regulation - 2013

Sixth Semester

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Unit - I

1. Explain with neat sketch the construction and working Principle of Electronic Ignition system

2. Explain briefly about the construction and working Principle of lubrication System used in two wheelers.

3. Explain with neat sketch the construction and working Principle of Rotary Valve engine.

4. With the aid of neat Sketches explain the constructional details of a Single cylinder two Stroke petrol engine used for motor cycle.

5. Describe the working of CV Carburetor used for a two wheeler with Particular reference to the choke circuit, main circuit and acceleration circuit.

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Unit-2.

1. Explain briefly about the construction and working principle of centrifugal type clutch

2. Sketch the exploded view of a multiplate wet clutch used in a scooter and explain its working

3. Explain briefly about the working principle of telescopic forks

4. Explain briefly about the working principle of shocks absorbers

5. Explain briefly about the front and rear suspension system used in a two wheeler.

Unit-3

1. Describe in detail about construction and working of disc brakes compare them with the conventional drum type brakes

2. Discuss with the help of neat sketches, the construction of various types of cast wheels used in motor cycles and scoots

3) Explain briefly about the construction and working principle of Drum brake

4) Explain the construction and working principle of hydraulic brakering system

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Unit-4

1. With help of suitable sketches bring out all operational difference between Enfield and Yamaha motorcycle.

2. Briefly explain the various service and maintenance Procedure followed by two wheeler manufacturers

3. Explain the salient features of a TVS champ moved

4. Compare the Performance characteristics of any four no scooter of same category by different manufacturers

5. Discuss in detail about Performance characteristics of any four motorcycle of same category by different manufacturers.

Unit-5

1. Explain the Power plant, transmission system of a rear engine auto rickshaw, further explain the rear suspension of this vehicle.

2. Prepare trouble shooting chart to trace out the Problems of auto rickshaws

3. Write notes on the following i) Transmission of front engines auto rickshaw ii) Three wheeler with trailer (iii) Diesel engine three wheelers (iv) Trailing arm suspension for three wheelers.

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4. Write notes on

i) Auto rickshaw

ii) Pickup van

iii) Delivery van

iv) Trailer

5, Explain the method of fault tracing and remedies to correct various fault occur in a three wheeler.

—x—x— All the Best —x—x—

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